

Release notes for ENDF/B Development n-042_Mo_094
evaluation

ENDF
B-VII.dev

April 26, 2017

- checkr Warnings:

1. A previous error halted parsing of the current section
MAT=4231, MF= 1, MT=451 (1): Parsing stopped

```
ERROR(S) FOUND IN MAT=4231, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER      361 TO      443
```

2. Generic warning message
MAT=4231, MF= 3, MT=111 (1): Warning

```
ERROR(S) FOUND IN MAT=4231, MF= 3, MT=111
WARNING(S)      IN MAT=4231, MF= 3, MT=203
```

3. Generic warning message
MAT=4231, MF= 3, MT=203 (1): Warning

```
ERROR(S) FOUND IN MAT=4231, MF= 3, MT=203
WARNING(S)      IN MAT=4231, MF= 3, MT=204
```

4. Generic warning message
MAT=4231, MF= 3, MT=204 (1): Warning

```
ERROR(S) FOUND IN MAT=4231, MF= 3, MT=204
WARNING(S)      IN MAT=4231, MF= 3, MT=205
```

5. Generic warning message
MAT=4231, MF= 3, MT=205 (1): Warning

```
ERROR(S) FOUND IN MAT=4231, MF= 3, MT=205
WARNING(S)      IN MAT=4231, MF= 3, MT=206
```

6. Generic warning message
MAT=4231, MF= 3, MT=206 (1): Warning

```
ERROR(S) FOUND IN MAT=4231, MF= 3, MT=206
WARNING(S)      IN MAT=4231, MF= 3, MT=207
```

7. Generic warning message
MAT=4231, MF= 6, MT= 91 (1): Warning

```
ERROR(S) FOUND IN MAT=4231, MF= 6, MT= 91
WARNING(S)      IN MAT=4231, MF= 6, MT=203
```

8. Generic warning message
MAT=4231, MF= 6, MT=203 (1): Warning

```
ERROR(S) FOUND IN MAT=4231, MF= 6, MT=203
WARNING(S)      IN MAT=4231, MF= 6, MT=204
```

9. Generic warning message
MAT=4231, MF= 6, MT=204 (1): Warning

```
ERROR(S) FOUND IN MAT=4231, MF= 6, MT=204
WARNING(S)      IN MAT=4231, MF= 6, MT=205
```

10. Generic warning message
MAT=4231, MF= 6, MT=205 (1): Warning

```

ERROR(S) FOUND IN MAT=4231, MF= 6, MT=205
WARNING(S)      IN MAT=4231, MF= 6, MT=206

```

11. Generic warning message
MAT=4231, MF= 6, MT=206 (1): Warning

```

ERROR(S) FOUND IN MAT=4231, MF= 6, MT=206
WARNING(S)      IN MAT=4231, MF= 6, MT=207

```

• checkr Errors:

1. A variable is outside the allowed ENDF range
MAT=4231, MF= 1, MT=451 (0): Variable range

```

ERROR(S) FOUND IN MAT=4231, MF= 1, MT=451
MOD =      1 OUT OF RANGE      0 -      0      RECORD NUMBER      361

```

2. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4231, MF= 2, MT=151 (0): Directory (b)

```

ERROR(S) FOUND IN MAT=4231, MF= 2, MT=151
SECTION  2/151 NOT IN DIRECTORY      RECORD NUMBER      445

```

3. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4231, MF= 3, MT= 1 (0): Directory (b)

```

ERROR(S) FOUND IN MAT=4231, MF= 3, MT= 1
SECTION  3/ 1 NOT IN DIRECTORY      RECORD NUMBER      568

```

4. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4231, MF= 3, MT= 2 (0): Directory (b)

```

ERROR(S) FOUND IN MAT=4231, MF= 3, MT= 2
SECTION  3/ 2 NOT IN DIRECTORY      RECORD NUMBER      732

```

5. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4231, MF= 3, MT= 4 (0): Directory (b)

```

ERROR(S) FOUND IN MAT=4231, MF= 3, MT= 4
SECTION  3/ 4 NOT IN DIRECTORY      RECORD NUMBER      896

```

6. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4231, MF= 3, MT= 16 (0): Directory (b)

```

ERROR(S) FOUND IN MAT=4231, MF= 3, MT= 16
SECTION  3/ 16 NOT IN DIRECTORY      RECORD NUMBER      918

```

7. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 3, MT= 17 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4231, MF= 3, MT= 17
SECTION 3/ 17 NOT IN DIRECTORY          RECORD NUMBER    926
```

8. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 3, MT= 22 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4231, MF= 3, MT= 22
SECTION 3/ 22 NOT IN DIRECTORY          RECORD NUMBER    932
```

9. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 3, MT= 28 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4231, MF= 3, MT= 28
SECTION 3/ 28 NOT IN DIRECTORY          RECORD NUMBER    942
```

10. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 3, MT= 51 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4231, MF= 3, MT= 51
SECTION 3/ 51 NOT IN DIRECTORY          RECORD NUMBER    951
```

11. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 3, MT= 52 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4231, MF= 3, MT= 52
SECTION 3/ 52 NOT IN DIRECTORY          RECORD NUMBER    971
```

12. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 3, MT= 53 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4231, MF= 3, MT= 53
SECTION 3/ 53 NOT IN DIRECTORY          RECORD NUMBER    989
```

13. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 3, MT= 54 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4231, MF= 3, MT= 54
SECTION 3/ 54 NOT IN DIRECTORY          RECORD NUMBER   1006
```

14. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 3, MT= 55 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4231, MF= 3, MT= 55
SECTION 3/ 55 NOT IN DIRECTORY          RECORD NUMBER   1023
```

15. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 3, MT= 56 (0): Directory (b)

ERROR(S) FOUND IN MAT=4231, MF= 3, MT= 56
SECTION 3/ 56 NOT IN DIRECTORY RECORD NUMBER 1039

16. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 3, MT= 57 (0): Directory (b)

ERROR(S) FOUND IN MAT=4231, MF= 3, MT= 57
SECTION 3/ 57 NOT IN DIRECTORY RECORD NUMBER 1055

17. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 3, MT= 58 (0): Directory (b)

ERROR(S) FOUND IN MAT=4231, MF= 3, MT= 58
SECTION 3/ 58 NOT IN DIRECTORY RECORD NUMBER 1070

18. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 3, MT= 59 (0): Directory (b)

ERROR(S) FOUND IN MAT=4231, MF= 3, MT= 59
SECTION 3/ 59 NOT IN DIRECTORY RECORD NUMBER 1085

19. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 3, MT= 60 (0): Directory (b)

ERROR(S) FOUND IN MAT=4231, MF= 3, MT= 60
SECTION 3/ 60 NOT IN DIRECTORY RECORD NUMBER 1100

20. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 3, MT= 61 (0): Directory (b)

ERROR(S) FOUND IN MAT=4231, MF= 3, MT= 61
SECTION 3/ 61 NOT IN DIRECTORY RECORD NUMBER 1114

21. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 3, MT= 62 (0): Directory (b)

ERROR(S) FOUND IN MAT=4231, MF= 3, MT= 62
SECTION 3/ 62 NOT IN DIRECTORY RECORD NUMBER 1128

22. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 3, MT= 63 (0): Directory (b)

ERROR(S) FOUND IN MAT=4231, MF= 3, MT= 63
SECTION 3/ 63 NOT IN DIRECTORY RECORD NUMBER 1141

23. Missing a section in directory so your directory is messed up. This error will break everything else
 $MAT=4231, MF=3, MT=64 (0)$: Directory (b)
- ERROR(S) FOUND IN MAT=4231, MF= 3, MT= 64
SECTION 3/ 64 NOT IN DIRECTORY RECORD NUMBER 1154
24. Missing a section in directory so your directory is messed up. This error will break everything else
 $MAT=4231, MF=3, MT=65 (0)$: Directory (b)
- ERROR(S) FOUND IN MAT=4231, MF= 3, MT= 65
SECTION 3/ 65 NOT IN DIRECTORY RECORD NUMBER 1167
25. Missing a section in directory so your directory is messed up. This error will break everything else
 $MAT=4231, MF=3, MT=66 (0)$: Directory (b)
- ERROR(S) FOUND IN MAT=4231, MF= 3, MT= 66
SECTION 3/ 66 NOT IN DIRECTORY RECORD NUMBER 1179
26. Missing a section in directory so your directory is messed up. This error will break everything else
 $MAT=4231, MF=3, MT=67 (0)$: Directory (b)
- ERROR(S) FOUND IN MAT=4231, MF= 3, MT= 67
SECTION 3/ 67 NOT IN DIRECTORY RECORD NUMBER 1191
27. Missing a section in directory so your directory is messed up. This error will break everything else
 $MAT=4231, MF=3, MT=68 (0)$: Directory (b)
- ERROR(S) FOUND IN MAT=4231, MF= 3, MT= 68
SECTION 3/ 68 NOT IN DIRECTORY RECORD NUMBER 1203
28. Missing a section in directory so your directory is messed up. This error will break everything else
 $MAT=4231, MF=3, MT=69 (0)$: Directory (b)
- ERROR(S) FOUND IN MAT=4231, MF= 3, MT= 69
SECTION 3/ 69 NOT IN DIRECTORY RECORD NUMBER 1214
29. Missing a section in directory so your directory is messed up. This error will break everything else
 $MAT=4231, MF=3, MT=91 (0)$: Directory (b)
- ERROR(S) FOUND IN MAT=4231, MF= 3, MT= 91
SECTION 3/ 91 NOT IN DIRECTORY RECORD NUMBER 1226
30. Missing a section in directory so your directory is messed up. This error will break everything else
 $MAT=4231, MF=3, MT=102 (0)$: Directory (b)
- ERROR(S) FOUND IN MAT=4231, MF= 3, MT=102
SECTION 3/102 NOT IN DIRECTORY RECORD NUMBER 1237

31. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 3, MT=103 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4231, MF= 3, MT=103
SECTION 3/103 NOT IN DIRECTORY                RECORD NUMBER 1258
```

32. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 3, MT=104 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4231, MF= 3, MT=104
SECTION 3/104 NOT IN DIRECTORY                RECORD NUMBER 1273
```

33. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 3, MT=105 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4231, MF= 3, MT=105
SECTION 3/105 NOT IN DIRECTORY                RECORD NUMBER 1285
```

34. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 3, MT=106 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4231, MF= 3, MT=106
SECTION 3/106 NOT IN DIRECTORY                RECORD NUMBER 1295
```

35. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 3, MT=107 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4231, MF= 3, MT=107
SECTION 3/107 NOT IN DIRECTORY                RECORD NUMBER 1307
```

36. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 3, MT=111 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4231, MF= 3, MT=111
SECTION 3/111 NOT IN DIRECTORY                RECORD NUMBER 1323
```

37. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 3, MT=203 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4231, MF= 3, MT=203
SECTION 3/203 NOT IN DIRECTORY                RECORD NUMBER 1334
```

38. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 3, MT=204 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4231, MF= 3, MT=204
SECTION 3/204 NOT IN DIRECTORY                RECORD NUMBER 1413
```

39. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 3, MT=205 (0): Directory (b)

ERROR(S) FOUND IN MAT=4231, MF= 3, MT=205
SECTION 3/205 NOT IN DIRECTORY RECORD NUMBER 1425

40. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 3, MT=206 (0): Directory (b)

ERROR(S) FOUND IN MAT=4231, MF= 3, MT=206
SECTION 3/206 NOT IN DIRECTORY RECORD NUMBER 1435

41. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 3, MT=207 (0): Directory (b)

ERROR(S) FOUND IN MAT=4231, MF= 3, MT=207
SECTION 3/207 NOT IN DIRECTORY RECORD NUMBER 1447

42. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 4, MT= 2 (0): Directory (b)

ERROR(S) FOUND IN MAT=4231, MF= 4, MT= 2
SECTION 4/ 2 NOT IN DIRECTORY RECORD NUMBER 1475

43. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 4, MT= 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=4231, MF= 4, MT= 51
SECTION 4/ 51 NOT IN DIRECTORY RECORD NUMBER 1648

44. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 4, MT= 52 (0): Directory (b)

ERROR(S) FOUND IN MAT=4231, MF= 4, MT= 52
SECTION 4/ 52 NOT IN DIRECTORY RECORD NUMBER 1747

45. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 4, MT= 53 (0): Directory (b)

ERROR(S) FOUND IN MAT=4231, MF= 4, MT= 53
SECTION 4/ 53 NOT IN DIRECTORY RECORD NUMBER 1776

46. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 4, MT= 54 (0): Directory (b)

ERROR(S) FOUND IN MAT=4231, MF= 4, MT= 54
SECTION 4/ 54 NOT IN DIRECTORY RECORD NUMBER 1805

47. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 4, MT= 55 (0): Directory (b)

ERROR(S) FOUND IN MAT=4231, MF= 4, MT= 55
SECTION 4/ 55 NOT IN DIRECTORY RECORD NUMBER 1834

48. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 4, MT= 56 (0): Directory (b)

ERROR(S) FOUND IN MAT=4231, MF= 4, MT= 56
SECTION 4/ 56 NOT IN DIRECTORY RECORD NUMBER 1863

49. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 4, MT= 57 (0): Directory (b)

ERROR(S) FOUND IN MAT=4231, MF= 4, MT= 57
SECTION 4/ 57 NOT IN DIRECTORY RECORD NUMBER 1892

50. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 4, MT= 58 (0): Directory (b)

ERROR(S) FOUND IN MAT=4231, MF= 4, MT= 58
SECTION 4/ 58 NOT IN DIRECTORY RECORD NUMBER 1921

51. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 4, MT= 59 (0): Directory (b)

ERROR(S) FOUND IN MAT=4231, MF= 4, MT= 59
SECTION 4/ 59 NOT IN DIRECTORY RECORD NUMBER 1950

52. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 4, MT= 60 (0): Directory (b)

ERROR(S) FOUND IN MAT=4231, MF= 4, MT= 60
SECTION 4/ 60 NOT IN DIRECTORY RECORD NUMBER 2022

53. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 4, MT= 61 (0): Directory (b)

ERROR(S) FOUND IN MAT=4231, MF= 4, MT= 61
SECTION 4/ 61 NOT IN DIRECTORY RECORD NUMBER 2051

54. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 4, MT= 62 (0): Directory (b)

ERROR(S) FOUND IN MAT=4231, MF= 4, MT= 62
SECTION 4/ 62 NOT IN DIRECTORY RECORD NUMBER 2080

55. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 4, MT= 63 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4231, MF= 4, MT= 63
SECTION 4/ 63 NOT IN DIRECTORY                RECORD NUMBER    2109
```

56. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 4, MT= 64 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4231, MF= 4, MT= 64
SECTION 4/ 64 NOT IN DIRECTORY                RECORD NUMBER    2138
```

57. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 4, MT= 65 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4231, MF= 4, MT= 65
SECTION 4/ 65 NOT IN DIRECTORY                RECORD NUMBER    2167
```

58. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 4, MT= 66 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4231, MF= 4, MT= 66
SECTION 4/ 66 NOT IN DIRECTORY                RECORD NUMBER    2196
```

59. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 4, MT= 67 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4231, MF= 4, MT= 67
SECTION 4/ 67 NOT IN DIRECTORY                RECORD NUMBER    2225
```

60. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 4, MT= 68 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4231, MF= 4, MT= 68
SECTION 4/ 68 NOT IN DIRECTORY                RECORD NUMBER    2254
```

61. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 4, MT= 69 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4231, MF= 4, MT= 69
SECTION 4/ 69 NOT IN DIRECTORY                RECORD NUMBER    2283
```

62. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 6, MT= 16 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4231, MF= 6, MT= 16
SECTION 6/ 16 NOT IN DIRECTORY                RECORD NUMBER    2351
```

63. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 6, MT= 17 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4231, MF= 6, MT= 17
SECTION 6/ 17 NOT IN DIRECTORY          RECORD NUMBER    2826
```

64. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 6, MT= 22 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4231, MF= 6, MT= 22
SECTION 6/ 22 NOT IN DIRECTORY          RECORD NUMBER    2913
```

65. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 6, MT= 28 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4231, MF= 6, MT= 28
SECTION 6/ 28 NOT IN DIRECTORY          RECORD NUMBER    3746
```

66. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 6, MT= 91 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4231, MF= 6, MT= 91
SECTION 6/ 91 NOT IN DIRECTORY          RECORD NUMBER    4268
```

67. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 6, MT=203 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4231, MF= 6, MT=203
SECTION 6/203 NOT IN DIRECTORY          RECORD NUMBER    5260
```

68. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 6, MT=204 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4231, MF= 6, MT=204
SECTION 6/204 NOT IN DIRECTORY          RECORD NUMBER    5658
```

69. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 6, MT=205 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4231, MF= 6, MT=205
SECTION 6/205 NOT IN DIRECTORY          RECORD NUMBER    5872
```

70. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=4231, MF= 6, MT=206 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4231, MF= 6, MT=206
SECTION 6/206 NOT IN DIRECTORY          RECORD NUMBER    6015
```

71. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4231, MF= 6, MT=207 (0): Directory (b)
- ERROR(S) FOUND IN MAT=4231, MF= 6, MT=207
SECTION 6/207 NOT IN DIRECTORY RECORD NUMBER 6167
72. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4231, MF=12, MT=102 (0): Directory (b)
- ERROR(S) FOUND IN MAT=4231, MF=12, MT=102
SECTION 12/102 NOT IN DIRECTORY RECORD NUMBER 6803
73. Missing a gamma spectrum for continuum of gammas
MAT=4231, MF=12, MT=102 (1): No gamma spectrum
- ERROR(S) FOUND IN MAT=4231, MF=12, MT=102
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
74. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4231, MF=13, MT= 3 (0): Directory (b)
- ERROR(S) FOUND IN MAT=4231, MF=13, MT= 3
SECTION 13/ 3 NOT IN DIRECTORY RECORD NUMBER 6812
75. Missing a gamma spectrum for continuum of gammas
MAT=4231, MF=13, MT= 3 (1): No gamma spectrum
- ERROR(S) FOUND IN MAT=4231, MF=13, MT= 3
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
76. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4231, MF=14, MT= 3 (0): Directory (b)
- ERROR(S) FOUND IN MAT=4231, MF=14, MT= 3
SECTION 14/ 3 NOT IN DIRECTORY RECORD NUMBER 6824
77. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4231, MF=14, MT=102 (0): Directory (b)
- ERROR(S) FOUND IN MAT=4231, MF=14, MT=102
SECTION 14/102 NOT IN DIRECTORY RECORD NUMBER 6826
78. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4231, MF=15, MT= 3 (0): Directory (b)
- ERROR(S) FOUND IN MAT=4231, MF=15, MT= 3
SECTION 15/ 3 NOT IN DIRECTORY RECORD NUMBER 6829
79. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4231, MF=15, MT=102 (0): Directory (b)

ERROR(S) FOUND IN MAT=4231, MF=15, MT=102
SECTION 15/102 NOT IN DIRECTORY RECORD NUMBER 7277

80. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4231, MF=33, MT= 1 (0): Directory (b)

ERROR(S) FOUND IN MAT=4231, MF=33, MT= 1
SECTION 33/ 1 NOT IN DIRECTORY RECORD NUMBER 7422

81. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4231, MF=33, MT= 2 (0): Directory (b)

ERROR(S) FOUND IN MAT=4231, MF=33, MT= 2
SECTION 33/ 2 NOT IN DIRECTORY RECORD NUMBER 7650

82. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4231, MF=33, MT= 4 (0): Directory (b)

ERROR(S) FOUND IN MAT=4231, MF=33, MT= 4
SECTION 33/ 4 NOT IN DIRECTORY RECORD NUMBER 7878

83. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4231, MF=33, MT= 16 (0): Directory (b)

ERROR(S) FOUND IN MAT=4231, MF=33, MT= 16
SECTION 33/ 16 NOT IN DIRECTORY RECORD NUMBER 7976

84. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=4231, MF=33, MT=102 (0): Directory (b)

ERROR(S) FOUND IN MAT=4231, MF=33, MT=102
SECTION 33/102 NOT IN DIRECTORY RECORD NUMBER 7996

- **groupie** Errors:

1. Very small elastic cross section found
0: Small elastic

Multi-Group and Multi-Band Parameters from ENDF/B Data (GROUPIE 2015-2)

ENDF/B Input and Output Data Filenames
ENDFB.IN
ENDFB.OUT
... [97 more lines]

- **fudge-4.0** Warnings:

1. Missing a channel with a particular angular momenta combination
resonances / resolved / MultiLevel BreitWigner (Error # 0): missingResonanceChannel

WARNING: Missing a channel with angular momenta combination L = 0, J = 1.5 and S = 1.5 for "capture"
 WARNING: Missing a channel with angular momenta combination L = 1, J = 0.5 and S = 1.5 for "capture"
 WARNING: Missing a channel with angular momenta combination L = 1, J = 1.5 and S = 1.5 for "capture"
 WARNING: Missing a channel with angular momenta combination L = 1, J = 2.5 and S = 1.5 for "capture"

2. Unnormalized outgoing probability distribution

reaction label 20: $n + \text{Mo94-c} / \text{Product: } n / \text{Distribution: } / \text{energyAngular} - \text{XYs3d}$:
 (Error # 0): Bad norm

WARNING: Unnormalized distribution! At energy_in = 2996850. eV (index 0), integral = 0.5
 WARNING: Unnormalized distribution! At energy_in = 3296850. eV (index 1), integral = 0.852515133775
 WARNING: Unnormalized distribution! At energy_in = 4.e6 eV (index 2), integral = 0.852513501463
 WARNING: Unnormalized distribution! At energy_in = 5.e6 eV (index 3), integral = 0.913730201132
 ... plus 15 more instances of this message

3. Unnormalized outgoing probability distribution

reaction label 21: $n[\text{multiplicity:}'2'] + \text{Mo93} / \text{Product: } n / \text{Distribution: } / \text{energyAngular} - \text{XYs3d}$: (Error # 0): Bad norm

WARNING: Unnormalized distribution! At energy_in = 9776490. eV (index 0), integral = 0.5
 WARNING: Unnormalized distribution! At energy_in = 1.00765e7 eV (index 1), integral = 0.664468189543
 WARNING: Unnormalized distribution! At energy_in = 1.1e7 eV (index 2), integral = 0.894759335982
 WARNING: Unnormalized distribution! At energy_in = 1.2e7 eV (index 3), integral = 0.918287331408
 ... plus 8 more instances of this message

4. Unnormalized outgoing probability distribution

reaction label 22: $n[\text{multiplicity:}'3'] + \text{Mo92} / \text{Product: } n / \text{Distribution: } / \text{energyAngular} - \text{XYs3d}$: (Error # 0): Bad norm

WARNING: Unnormalized distribution! At energy_in = 1.79355e7 eV (index 0), integral = 0.5
 WARNING: Unnormalized distribution! At energy_in = 1.82355e7 eV (index 1), integral = 0.664468734899
 WARNING: Unnormalized distribution! At energy_in = 1.9e7 eV (index 2), integral = 0.768437474753
 WARNING: Unnormalized distribution! At energy_in = 2.e7 eV (index 3), integral = 0.862752713337

5. Unnormalized outgoing probability distribution

reaction label 23: $n + \text{H1} + \text{Nb93} / \text{Product: } n / \text{Distribution: } / \text{energyAngular} - \text{XYs3d}$:
 (Error # 0): Bad norm

WARNING: Unnormalized distribution! At energy_in = 8583240. eV (index 0), integral = 0.5
 WARNING: Unnormalized distribution! At energy_in = 8883240. eV (index 1), integral = 0.903947119872
 WARNING: Unnormalized distribution! At energy_in = 1.e7 eV (index 2), integral = 0.903946017551
 WARNING: Unnormalized distribution! At energy_in = 1.1e7 eV (index 3), integral = 0.866456974483
 ... plus 9 more instances of this message

6. Unnormalized outgoing probability distribution

reaction label 25: $n + \text{He4} + \text{Zr90} / \text{Product: } n / \text{Distribution: } / \text{energyAngular} - \text{XYs3d}$: (Error # 0): Bad norm

WARNING: Unnormalized distribution! At energy_in = 2.0945e6 eV (index 0), integral = 0.5
 WARNING: Unnormalized distribution! At energy_in = 2.3945e6 eV (index 1), integral = 0.834091664298
 WARNING: Unnormalized distribution! At energy_in = 6.e6 eV (index 2), integral = 0.834088831231
 WARNING: Unnormalized distribution! At energy_in = 7.e6 eV (index 3), integral = 0.95721939095
 ... plus 13 more instances of this message

7. For distributions, flat interpolation along incident energy is unphysical!

production label 32: $/\text{reactionSuite/reactions/production}[@\text{label}='32'] / \text{Product: } \text{gamma}$

/ Distribution: / uncorrelated - energy - XYs2d: (Error # 0): flatIncidentEnergyInterpolation

WARNING: For distributions, flat interpolation along incident energy is unphysical!

8. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 0: total (Error # 0): CS Sum.

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.11%

9. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 1: nonelastic (Error # 0): CS Sum.

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.39%

10. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 2: (z,n) (Error # 0): CS Sum.

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.13%

11. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 0 (total): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

12. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 0 (total): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

13. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 1 (n + Mo94): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

14. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 1 (n + Mo94): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

15. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 2 ((z,n)): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

16. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 3 (n[multiplicity:'2'] + Mo93): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

17. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 4 (Mo95 + gamma): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

18. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 4 (Mo95 + gamma): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

- fudge-4.0 Errors:

1. Calculated and tabulated Q values disagree.

reaction label 28: H2 + Nb93_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6264417.238586426 eV vs -6186820. eV!

- njoy2012 Warnings:

1. Recoil is not given, so one-particle recoil approximation used.

heatr...prompt kerma (0): HEATR/hinit (4)

---message from hinit---mf6, mt 16 does not give recoil za= 42093
one-particle recoil approx. used.

2. Recoil is not given, so one-particle recoil approximation used.

heatr...prompt kerma (1): HEATR/hinit (4)

---message from hinit---mf6, mt 17 does not give recoil za= 42092
one-particle recoil approx. used.

3. Recoil is not given, so one-particle recoil approximation used.

heatr...prompt kerma (2): HEATR/hinit (4)

---message from hinit---mf6, mt 22 does not give recoil za= 42094
one-particle recoil approx. used.

4. Recoil is not given, so one-particle recoil approximation used.

heatr...prompt kerma (3): HEATR/hinit (4)

---message from hinit---mf6, mt 28 does not give recoil za= 42094
one-particle recoil approx. used.

5. Recoil is not given, so one-particle recoil approximation used.

heatr...prompt kerma (4): HEATR/hinit (4)

---message from hinit---mf6, mt 91 does not give recoil za= 42094
one-particle recoil approx. used.

6. Recoil is not given, so one-particle recoil approximation used.

heatr...prompt kerma (5): HEATR/hinit (4)

---message from hinit---mf6, mt203 does not give recoil za= 41094
one-particle recoil approx. used.

7. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (6): HEATR/hinit (4)

---message from hinit---mf6, mt204 does not give recoil za= 41093
one-particle recoil approx. used.

8. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (7): HEATR/hinit (4)

---message from hinit---mf6, mt205 does not give recoil za= 41092
one-particle recoil approx. used.

9. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (8): HEATR/hinit (4)

---message from hinit---mf6, mt206 does not give recoil za= 40092
one-particle recoil approx. used.

10. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (9): HEATR/hinit (4)

---message from hinit---mf6, mt207 does not give recoil za= 40091
one-particle recoil approx. used.